FY 2009 Capital Budget TPS Report 50783

Agency: Commerce, Community and Economic Development

Grants to Named Recipients (AS 37.05.316)

Grant Recipient: Alutiiq Pride Shellfish Hatchery

Project Title:

Alutiiq Pride Shellfish Hatchery - Alaska King Crab Research and Rehabilitation Project

State Funding Requested: \$ 68,000 House District: 35 - R

Future Funding May Be Requested

Brief Project Description:

Development of king crab nursery project

Funding Plan:

Total Cost of Project: \$68,000

<u>Funding Secured</u> <u>Other Pending Requests</u> <u>Anticipated Future Need</u>

Amount FY Amount FY Amount FY

Federal Funds \$105,000 2009 Other \$65,000 2009

Total \$170,000

Explanation of Other Funds:

Funding from Central Bering Sea Fishermen's Association

Detailed Project Description and Justification:

With a \$68,000 state capital grant, hatchery participation in the king crab enhancement project would ensured through FY2009. State dollars are necessary as a bridge to the matching dollars and to ensure that the nursery phase of the project is funded.

State funding for the nursery phase of the project would assist the hatchery with utility costs, materials and supplies, and partial funding for the project manager.

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Project Timeline:

2008

Entity Responsible for the Ongoing Operation and Maintenance of this Project:

Alutiig Pride Shellfish Hatchery

For use by Co-chair Staff Only:

Contact Name: Katie Shows Contact Number: (907) 465-2689

Grant Recipient Contact Information:	
Contact Name:	
Phone Number: (907) 224-5181	
Address: PO Box 369	
Seward, AK	
Email: jjh@seward.net	

Has this project been through a public review process at the local level and is it a community priority? Yes X No

Contact Name: Katie Shows Contact Number: (907) 465-2689











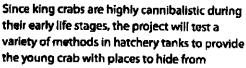


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The Alaska King Crab Research, Rehabilitation and Biology Program (AKCRRAB) is a collaboration between the University of Alaska Fairbanks, School of Fisheries and Ocean Sciences, Alaska Sea Grant, National Marine Fisheries Service, Alutiiq Pride Shellfish Hatchery, fishing organizations, coastal communities and Native groups. AKCRRAB is investigating the potential of stock enhancement for rehabilitation of depleted king crab stocks in Alaska. AKCRRAB has developed a plan to test new technologies for a king crab nursery program designed to efficiently produce juveniles for outplanting in approved enhancement projects.

One of the most important hurdles to overcome in efforts to rebuild depleted king crab stocks in Alaska is development of technology to provide juvenile crab large enough to avoid a

host of predators, including other king crab. Paradoxically, king crab, which are very large as adults, are very small (2mm) in their first juvenile stage (Fig. 1). Based on studies with other species of crabs and lobsters, the success of outplanting may be higher for older or larger individuals. Additionally, technology is needed to produce juveniles large enough to be tagged, providing an important tool for monitoring the contribution of stocked crab to the enhanced fisheries.





King crab larvae and juveniles are very small, approx. 2 mm in length at settlement.
All photos by C. Leroux.

one another. Juvenile crab will be placed in unique containers or silos containing different substrates, including gillnet webbing, artificial seaweed and filter material. The juvenile crabs are particularly vulnerable during molting phases and the substrates are designed to emulate natural cover in the wild. Researchers also will test a variety of diets (frozen artemia or brine shrimp, and two commercial food commonly used to feed shrimp) and holding densities (500, 1000 and 2000 crabs/m2).

The hatchery also will initiate tests of a marine nursery systems designed to utilize naturally occurring "biofouling" as food for the juvenile crab. This innovative approach will attempt to eliminate the need to feed the crab and costs associated with operating a nursery in indoor tanks. These experiments will be conducted in large outdoor tanks at the hatchery.

The AKCRRAB research team is consulting with crab and lobster researchers in the United States, Russia, Chile, Argentina and Canada in efforts to tap the latest technology for crustacean nursery systems. This project will help keep Alaska in the forefront of efforts to rebuild weak king crab stocks.

Funding needed to initiate this new component of AKCRRAB technology is projected to be \$68,000 in FYOB.



Alutiiq Pride Shellfish Hatchery PO Box 369 Seward, AK 907 224-5181 224-5282 fax jjh@seward.net

Personnel	
Project Manager	19000
Biologist	16000
Technician	8000
Subtotal	43000
Materials	
Supplies	4000
Equipment	5000
Subtotal	9000
Utilities	
Fuel Oil	11500
Electricity	3500
Water/Sewer/Garbage	1000
Subtotal	16000

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From: Rodger Painter [rodgerpainter@hotmail.com]

Sent: Friday, April 04, 2008 10:35 AM

To:

Subject: king crab match dollars

The hatchery has confirmation of the following match dollars for the king crab project:

FEDERAL - NOAA Fisheries - \$105,000

PRIVATE - Central Bering Sea Fishermen's Association - \$65,000

With the \$68,000 capital grant, hatchery participation in the king crab enhancement project would be ensured through FY 2009. The state dollars are necessary as a bridge to the matching funds and to ensure the vital nursery phase of the project is funded.